

60FX5

Power Pentode

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) $60 \pm 10\%$ volts
Current at 60 volts 0.1 amp

Direct Interelectrode Capacitances
(Approx.):[▲]

Grid No.1 to plate 0.65 μmf
Grid No.1 to cathode & grid No.3,
grid No.2, and heater 17 μmf
Plate to cathode & grid No.3,
grid No.2, and heater 9 μmf

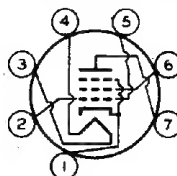
Characteristics, Class A₁ Amplifier:

Plate Supply Voltage 110 volts
Grid-No.2 Supply Voltage 115 volts
Cathode Resistor 62 ohms
Plate Resistance (Approx.) 17500 ohms
Transconductance 13500 μmhos
Plate Current 36 ma
Grid-No.2 Current 10 ma

Mechanical:

Operating Position Any
Maximum Overall Length 2-5/8"
Maximum Seated Length 2-3/8"
Length, Base Seat to Bulb Top (Excluding tip) $2" \pm 3/32"$
Diameter 0.650" to 0.750"
Dimensional Outline See *General Section*
Bulb T5-1/2
Base Small-Button Miniature 7-Pin (JEDEC No.E7-1)
Basing Designation for BOTTOM VIEW 7CV

Pin 1 - Cathode,
Grid No.3
Pin 2 - Grid No.1
Pin 3 - Heater



Pin 4 - Heater
Pin 5 - Grid No.1
Pin 6 - Grid No.2
Pin 7 - Plate

AF POWER AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE 150 max. volts
GRID-No.2 (SCREEN-GRID) VOLTAGE 130 max. volts
GRID-No.1 (CONTROL-GRID) VOLTAGE:
Positive-bias value 0 max. volts
GRID-No.2 INPUT 2 max. watts
PLATE DISSIPATION 5.5 max. watts



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DATA 1
8-60

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PEAK HEATER-CATHODE VOLTAGE:

| | | | |
|--|------------------|------|-------|
| Heater negative with respect to cathode. | 200 | max. | volts |
| Heater positive with respect to cathode. | 200 [•] | max. | volts |
| BULB TEMPERATURE (At hottest point on bulb surface). | 225 | max. | °C |

Typical Operation:

| | | |
|---|------|-------|
| Plate Supply Voltage. | 110 | volts |
| Grid-No.2 Supply Voltage. | 115 | volts |
| Cathode Resistor. | 62 | ohms |
| Peak AF Grid-No.1 Voltage | 3 | volts |
| Zero-Signal Plate Current | 36 | ma |
| Max.-Signal Plate Current | 35 | ma |
| Zero-Signal Grid-No.2 Current | 10 | ma |
| Max.-Signal Grid-No.2 Current | 12 | ma |
| Load Resistance | 3000 | ohms |
| Total Harmonic Distortion | 8 | % |
| Max.-Signal Power Output. | 1.3 | watts |

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

| | | | |
|-------------------------------------|-----|------|--------|
| For fixed-bias operation. | 0.1 | max. | megohm |
| For cathode-bias operation. | 0.5 | max. | megohm |

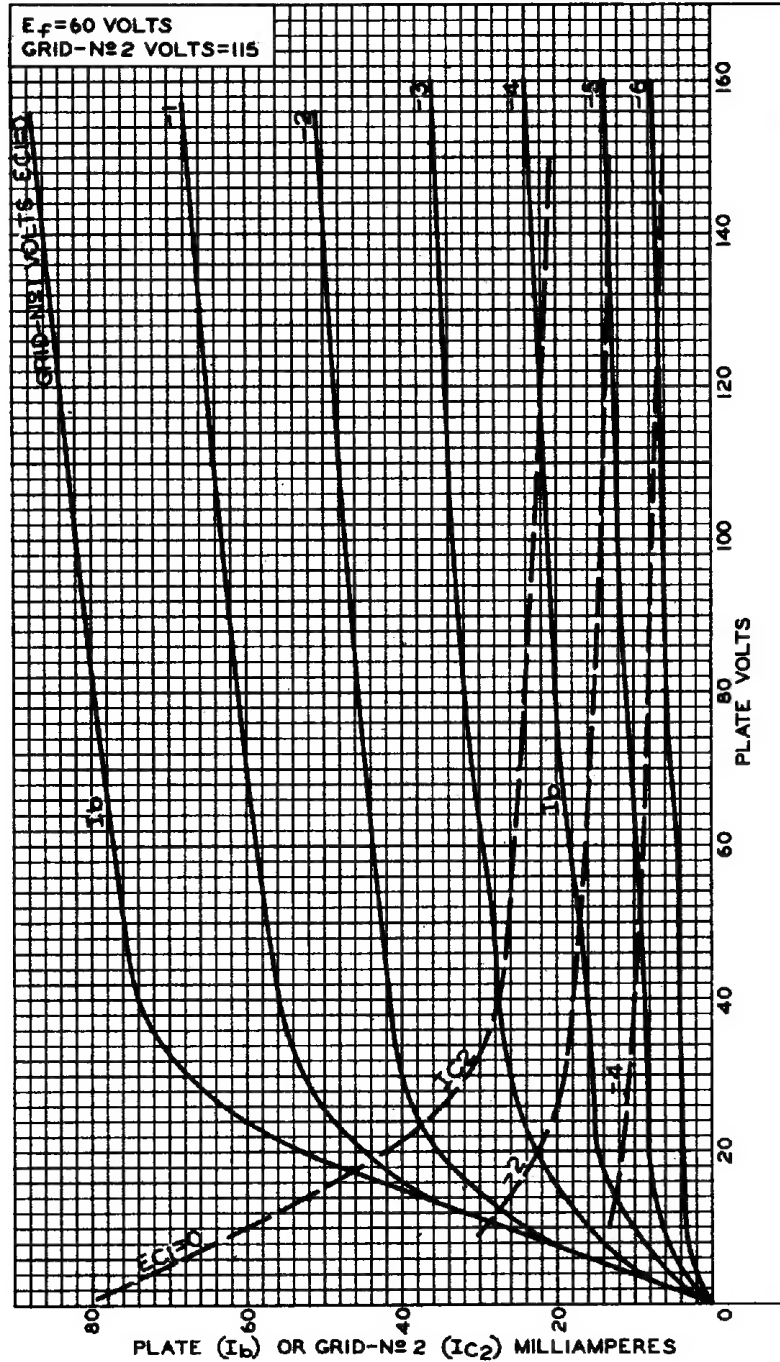
[▲] Without external shield.

[•] The dc component must not exceed 100 volts.



60FX5

AVERAGE CHARACTERISTICS

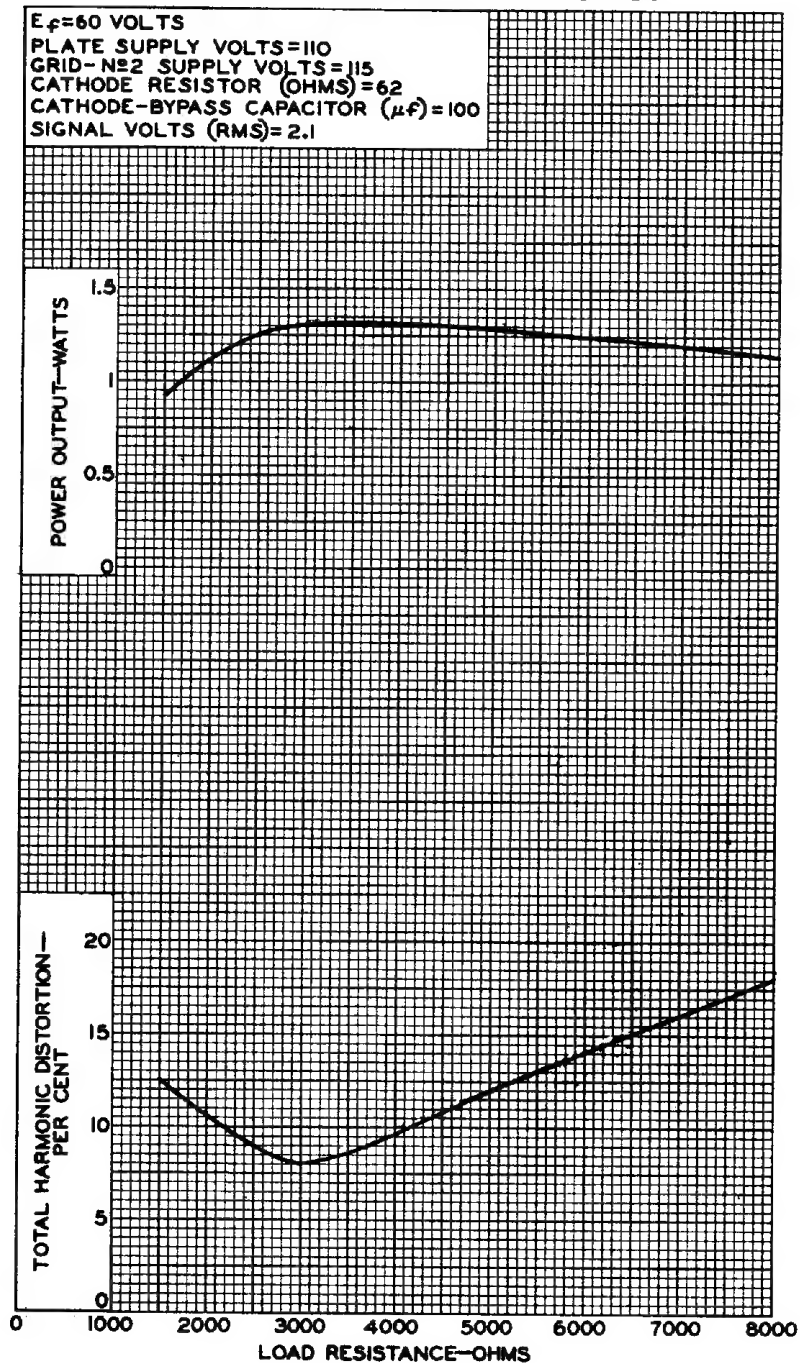


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DATA 2
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OPERATION CHARACTERISTICS



92CM-10545

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